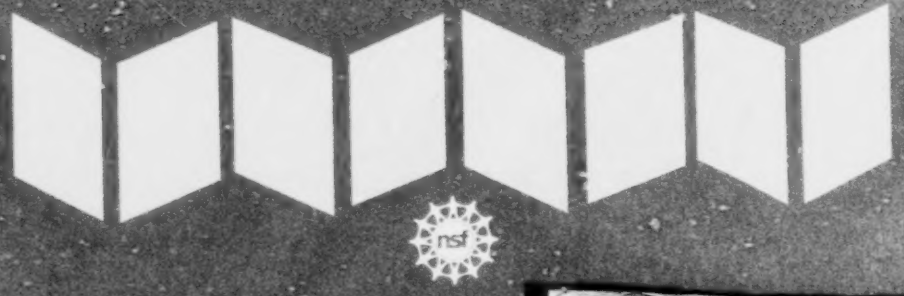
989

Publications of the National Science Foundation



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Availability of Publications

Research Reports

Research findings and results of studies supported by NSF are generally published in scientific journals or as reports prepared by the grantee institutions for NSF. These technical reports (and a few general publications as well) are sold by the National Technical Information Service (NTIS), 5285 Port Royal Rd., Springfield, Virginia 22161, (703) 487-4650. For information on the price and availability of these reports, contact NTIS.

Other Publications

This booklet lists publications issued by the National Science Foundation and currently in the inventory of NSF or the Government Printing Office (and in a few cases, NTIS). The first two digits of the publication number indicate the year of publication. If ordering from NTIS, be sure to give the PB number.

Price Information

Publications marked with the acronym "GPO" should be ordered from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, (202) 783-3238. Prices are subject to change, and those charged on orders may differ from the prices listed here. If not shown, price information was unavailable when this list was compiled.

Copies of publications marked with the acronym "NSF" are available free of charge from National Science Foundation, Attn: Forms and Publications, 1800 G Street, N.W., Rm. 232, Washington, D.C. 20550, (202) 357-7861. To order publications by mail, use order card in back of book.

Libraries

Many of the publications listed under "General Publications" and "Science Resources Studies" are also available at university (and some local) libraries, through the Government Printing Office's depository library program.

Ordering by Electronic Mail

If you are a user of electronic mail and have access to either BITNET or Internet, you may prefer to order publications electronically. BITNET users should address requests to *pubs@nsf*. Internet users should send requests to *pubs@note.nsf.gov*. In your request, include the NSF publication number and title, number of copies, your name, and a complete mailing address. Publications will be mailed within 2 days of receipt of request.

Catalog of Federal Domestic Assistance (CFDA) Numbers:

- 47.009 Graduate Research Fellowships
- 47.041 Engineering
- 47.049 Mathematical and Physical Sciences
- 47.050 Geosciences
- 47.051 Biological, Behavioral, and Social Sciences
- 47.053 Scientific, Technological, and International Affairs
- 47.066 Teacher Preparation and Enhancement
- 47.067 Materials Development, Research, and Informal Science Education
- 47.068 Studies and Problem Assessment
- 47.069 Research Initiation and Improvement
- 47.070 Computer and Information Science and Engineering
- 47.071 Undergraduate Science, Engineering, and Mathematics Education
- 47.072 Young Investigators
- 47.073 Science and Technology Research Centers

Other code numbers that appear in this booklet (and on the cover) are from the *Keyword Thesaurus* compiled for NSF, the National Institutes of Health, and the Department of Energy by Rodman & Associates, 1950 Stemmons Freeway, Dallas, Texas 75207. P.T. = program type; K.W. = keyword assigned to a particular discipline or subject area. The *Keyword Thesaurus* is available from NTIS in paper copy or microfiche. Order number PB 85-136893.

Publications of the National Science Foundation

(as of 4-89)

General Publications

Title	*Number*	*Price*	*Order from*
About the National Science Foundation (brochure)	**NSF 86-73**	**Free**	NSF
Basic Research: The Key to Economic Competitiveness (booklet)	**NSF 86-21**	Free	NSF
Biennial Science and Technology Report to the Congress	**In press**		
Final Report: NSF Advisory Committee on Merit Review (1986)	**NSF 86-93**	Free	NSF
Five-Year Outlook: No longer published (replaced by National Science Board's Science and Engineering Indicators)			
Grants for Research and Education in Science and Engineering (formerly Grants for Scientific and Engineering Research): Guidelines and instructions for submitting proposals	**NSF 83-57**	Free	NSF
Guide to NSF Programs, FY 1989	**NSF 88-65**	$5.50	GPO
Human Talent for Competitiveness	**NSF 87-24**	Free	NSF

NSF Long Range Plan, FY 1989-1993	**NSF 88-56**	Free	NSF
Merit Review Report	**NSF 86-93**	Free	NSF
A Minor Miracle (Early NSF history)*	**NSF 76-18**		
Mosaic (A magazine published 4 times yearly containing articles of particular interest to the scientific and educational communities served by NSF)	—	$ 5.00	GPO
National Science Foundation Annual Report (Available mid-year; covers activities of previous fiscal year):			
FY 1986	**NSF 87-1**	Free	NSF
FY 1987	**NSF 88-1**	Free	NSF
FY 1988	**NSF 89-1**	$7.00	GPO
National Science Foundation **Bulletin,** monthly publication (except July and August) which provides current news about programs, deadlines, meetings, staff changes, new publications, etc	—	Free	NSF
National Science Foundation Films (Description and availability)	**NSF 84-32**	Free	NSF
National Science Foundation Fiscal Year Awards (by state and NSF directorate)			
FY 1986	**NSF 87-18**	Free	NSF
FY 1987	**NSF 88-36**	Free	NSF
FY 1988	**NSF 89-2**	Free	NSF
NSF **Directions,** bimonthly newsletter	—	Free	NSF
NSF Grant Policy Manual (Compendium of basic NSF grant policies and procedures)	**NSF 88-47 Rev. mid-1989**	$13.00	GPO
The NSF: A Brief History	**NSF 88-16**	Free	NSF
A Patron for Pure Science: The National Science Foundation's	**PB 83-193888 (hardback);**		

Formative Years, 1945-57 (available from NTIS)	PB 83-193896 (paperback)	—	NTIS
Proposal Review at NSF: Perceptions of Principal Investigators	NSF 88-4	Free	NSF
Publications of the National Science Foundation	NSF 89-23	Free	NSF
Report on Funding Trends and Balance of Activities: NSF 1951-88	NSF 88-3	Free	NSF
The Role of Science and Technology in Economic Competitiveness (1987)			
—executive summary	None	Free	NSF
—final report	None	Free	NSF
Science—The Endless Frontier, by Vannevar Bush*	None	–	
Sources of Financial Support for Research Prize Winners	NSF 87-87	Free	NSF
Summaries of Projects Completed, National Science Foundation (Available only as microfiche from NTIS, through FY 1983)			
FY 1982	PB 83-127456	–	NTIS
FY 1983	PB 84-103886	–	NTIS
Waterman Award booklet	NSF 89-11	Free	NSF
Women and Minorities in Science and Engineering	NSF 88-301	Free	NSF

*Out of print; check university or local libraries.

Publications of the National Science Board (NSB)

Title	*Number*	*Price*	*Order from*
NSB Annual Report (No longer published)			
Report of the NSB Committee on Openness of Scientific Communication	NSB 88-215	Free	NSF

The Role of the National Science Foundation in Economic Competitiveness—NSB Statement and Committee Report (Oct. 1988)	None	Free	NSF
The Role of the National Science Foundation in Polar Regions	NSB 87-128	Free	NSF
Science and Engineering Indicators—1987	NSB 87-1	$17.00	GPO
A View from the National Science Board: The State of U.S. Science and Engineering (NSB statement accompanying 1987 *Indicators* report)	NSB 88-2	Free	NSF
Science and Engineering Indicators—1989	In press	–	–
Science Indicators/The 1985 Report	NSB 85-1	Free	NSF
Undergraduate Science, Mathematics, and Engineering Education	NSB 86-100	Free	NSF

Office of Science and Technology Centers Development

(CFDA 47.073;K.W. 1000000,0600000,1010000,1107000

Title	*Number*	*Price*	*Order from*
Program Guidelines			
Program Solicitation for Science and Technology Research Centers	NSF 89-17	Free	NSF

Directorate for Biological, Behavioral, and Social Sciences (BBS)

(CFDA 47.051; K.W. 1002000,0400000,1014004)

Title	*Number*	*Price*	*Order from*
Program Guidelines			
Anthropology Program (flyer)	NSF 88-93	Free	NSF

Archaeometry Announcement (flyer)	NSF 87-52	Free	NSF
Behavioral and Neural Sciences Division (BNS) (flyer)	NSF 88-62	Free	NSF
Biological Research Resources Program Guidelines:			
Guidelines for Proposals for Support of Systematic Collections	NSF 85-12	Free	NSF
Publication Support for Major Taxonomic Revisions and Monographs	NSF 85-13	Free	NSF
Biotic Systems and Resources Division (BSR) (flyer)	NSF 86-20	Free	NSF
Cellular Biosciences Division (DCB) (flyer)	NSF 88-131	Free	NSF
Chemistry of Life Processes: Research at the Interface of Chemistry and Biology (Jointly with the Directorate for Mathematical and Physical Sciences)	NSF 87-23	Free	NSF
Division of Instrumentation and Resources (flyer)	NSF 89-20	Free	NSF
Ecosystem Studies Program: Guidelines for the Preparation of Proposals	None	Free	NSF
Equipment and Facilities for Research at Biological Field Stations and Marine Laboratories	NSF 87-101	Free	NSF
Ethics and Values Studies	NSF 89-8	Free	NSF
Fellowship Opportunities in Environmental Biology for New Ph.D.s (BSR Division)	NSF 88-19	Free	NSF
Grants for Improving Doctoral Dissertation Research (for the Divisions of BSR, BNS, and SES)	NSF 88-35	Free	NSF
Grants for Research and Education in Science and Engineering	NSF 83-57	Free	NSF

Guidelines for Doctoral Dissertation Research Proposals for the Division of BSR	**None**	Free	NSF
Guidelines for the Preparation of Multi-investigator/Multi-disciplinary Proposals for the Ecosystem Studies Program, BSR Division	**None**	Free	NSF
Guidelines for Proposals for Support of Living Organism Stock Centers	**NSF 85-14**	Free	NSF
Instrumentation and Instrument Development Program	**NSF 88-75**	Free	NSF
Instrumentation Facilities for the Biological and Behavioral Sciences (flyer)	**NSF 88-105**	Free	NSF
Mid-Career Fellowship Opportunities in Environmental Biology, BSR Division	**NSF 88-81**	Free	NSF
Molecular Biosciences Division (DMB) (flyer)	**NSF 88-24**	Free	NSF
Postdoctoral Fellowships and Professional Development Awards/Studies in Science, Technology, and Society	**NSF 88-82**	Free	NSF
Postdoctoral Fellowships in Plant Biology—Divisions of Molecular and Cellular Biosciences	**(In revision)**	Free	NSF
Scholars Awards in Methodological Training for Cultural Anthropologists (flyer)	**NSF 88-60**	Free	NSF
Social and Economic Science Division (SES) (flyer)	**NSF 89-9**	Free	NSF
Sociology Program (flyer)	**(In revision)**	Free	NSF
Studies in Science, Technology, and Society: Research in History and Philosophy of Science and Technology	**NSF 88-72**	Free	NSF
Support for Systematic Anthropological Collections (flyer)	**NSF 88-87**	Free	NSF

Reports

Abstracts of Awards FY 1987, Political Science Program	None	Free	NSF
Division of Social and Economic Science Grants List (all fiscal years available)	None	Free	NSF

Directorate for Computer and Information Science and Engineering (CISE)

(CFDA 47.070; K.W. 1004000,1004017)

Title	*Number*	*Price*	*Order from*
Program Guidelines			
CSNET Announcement (Division of Advanced Scientific Computing)	None	Free	NSF
Grants for Research and Education in Science and Engineering	NSF 83-57		
Grants for Research on Information, Robotics, and Intelligent Systems	NSF 86-94	Free	NSF
Institutional Infrastructure Program	NSF 88-45	Free	NSF
Institutional Infrastructure Program (Small Scale)	NSF 88-111	Free	NSF
Institutional Infrastructure Program II (Minority Institutions, Continuing Grants and Planning Grants)	NSF 88-112	Free	NSF
Instrumentation Grants for Research in Computer and Information Science and Engineering	NSF 88-17	Free	NSF
National Supercomputer Centers Access Brochure (Division of Advanced Scientific Computing)	None	Free	NSF
Networking and Communications Research	NSF 88-85	Free	NSF

Networking (Connections to NSF's National Supercomputer Access Network, NSFnet)	NSF 86-26	Free	NSF
New Technologies Program (Division of Advanced Scientific Computing)	NSF 89-27	Free	NSF
Project Solicitation for Research Interagency Backbone	NSF 89-5	Free	NSF

Reports

Summary of Awards, FY 1987, Computer and Computation Research	NSF 88-53	Free	NSF
Summary of Awards, FY 1988, Computer and Computation Research	NSF 89-13	Free	NSF
Summary of Awards, FY 1988, Cross-Disciplinary Activities	NSF 89-6	Free	NSF
Summary of Awards, FY 1986, Information, Robotics, and Intelligent Systems	NSF 87-42	Free	NSF
Summary of Awards, FY 1988, Information, Robotics, and Intelligent Systems	NSF 89-19	Free	NSF
Summary of Awards, FY 1987, Microelectronic Information Processing Systems	NSF 87-89	Free	NSF
Summary of Awards, FY 1988, Microelectronic Information Processing Systems	NSF 88-115	Free	NSF

Directorate for Engineering (ENG)

(CFDA 47.041; K.W. 0600000,0608002)

Title	*Number*	*Price*	*Order from*

Program Guidelines

Bioengineering and Research to Aid the Disabled (BRAD)	NSF 88-30	Free	NSF

Biotechnology (Engineering Research Related to Life Sciences)	NSF 88-121	Free	NSF
Directorate for Engineering Program Descriptions	NSF 89-36	Free	NSF
Engineering Research Centers	NSF 88-104	Free	NSF
Engineering Research Equipment Grants	NSF 87-68	Free	NSF
Expedited Awards for Novel Research	NSF 87-90	Free	NSF
Grants for Research and Education in Science and Engineering	NSF 83-57	Free	NSF
Industry/University Cooperative Research Grants	(In revision)	Free	NSF
Materials Chemistry and Chemical Processing	NSF 88-128	Free	NSF
Natural and Manmade Hazards Mitigation (Program Announcement)	NSF 86-78	Free	NSF
Neuroengineering	NSF 87-28	Free	NSF
Ocean Engineering and Technology at the NSF	NSF 88-125	Free	NSF
Research Initiation Awards	NSF 88-99	Free	NSF
Strategic Manufacturing Initiative	NSF 88-117	Free	NSF
Supplemental Funding for Support of Women, Minority, and Disabled Engineering Research Assistants	NSF 87-70	Free	NSF
Undergraduate Curriculum Development in Engineering	NSF 88-84	Free	NSF

Reports

Engineering Directory of Awards Fiscal Year 1987	NSF 88-5	Free	NSF

Summary of Awards FY 1987: Design, Manufacturing, and Computer-Integrated Engineering	NSF 88-43	Free	NSF
Summary of Awards FY 1987: Mechanics, Structures, and Materials Engineering	NSF 88-94	Free	NSF

Directorate for Geosciences (GEO)

(CFDA 47.050; K.W. 1008004,1001000,0102000,0111001)

Title	*Number*	*Price*	*Order from*
Program Guidelines			
Antarctic Research Program (proposal preparation)	NSF 86-83	Free	NSF
Earth Sciences Research and NSF	NSF 85-26	Free	NSF
Grants for Arctic Research (proposal preparation)	NSF 86-29	Free	NSF
Grants for Research and Education in Science and Engineering	NSF 83-57	Free	NSF
Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities	NSF 84-63	Free	NSF
Land Margin Ecosystems Research	NSF 88-122	Free	NSF
Proposal Preparation for Fundamental Earthquake Studies	NSF 86-69	Free	NSF
Research Fellowships in Marine Biotechnology and the Ocean	NSF 89-22	Free	NSF
Reports			
Antarctic Bibliography (A series of compilations presenting abstracts and indexes of current Antarctic literature published worldwide since			

1962. Flyer describes the bibliography and the monthly printout of Current Antarctic Literature. May be obtained from Polar Information Program, National Science Foundation, Washington, DC 20550)	NSF 86-30	Free	–
Antarctic Conservation Act of 1978, Public Law 95-54 (Available from Polar Information Program)	None	Free	–
Antarctic Journal of the United States (Quarterly plus Annual Review issue)	None	$16.00 ($20.00 Foreign)	GPO
Arctic Research of the United States (Published twice a year, available from NSF, Polar Information Program)	None	Free	–
Facts about the U.S. Antarctic Research Program	NSF 88-66	Free	NSF

Initial reports of the Deep Sea Drilling Project (96 volumes have been published. Limited copies are available from Texas A&M University. For a complete listing of titles, identification numbers, and prices, write to: Ocean Drilling Program, Texas A&M Research Park, 1000 Discovery Drive, College Station, TX 77840, Attn: Publications Distribution.)			
NSF Arctic Science and Engineering Awards, Fiscal Years 1987 and 1988 (Available from Polar Information Program, National Science Foundation, Washington, DC 20550)	NSF 88-129	Free	–
Proceedings of the Ocean Drilling Program, Initial and Final Reports projected to be at least a 60-volume set. The first volume was published in December 1986. Availability and prices may be obtained by writing to the Publications Distribution Center, Ocean Drilling Program, 1000 Discovery Drive, College Station, TX 77840			
Research Ship POLAR DUKE (2-page flyer)	NSF 84-60	Free	NSF
The Role of the NSF in Polar Regions	NSB 87-128	Free	NSF
Safety in Antarctica	NSF 88-78	Free	NSF
Workshop on UV Radiation and Biological Research in Antarctica	NSF 88-108	Free	NSF

Directorate for Mathematical and Physical Sciences (MPS)

(CFDA 47.049; K.W. 1010000,1013000)

Title	*Number*	*Price*	*Order from*

Program Guidelines

Chemistry of Life Processes: Research at the Interface of Chemistry and Biology (jointly with the Directorate for Biological, Behavioral, and Social Sciences)	NSF 87-23	Free	NSF
Grants for Research and Education in Science and Engineering	NSF 83-57	Free	NSF
Grants for Scientific Computing Research Equipment for the Mathematical Sciences	NSF 88-74	Free	NSF
Guidelines for Chemical Instrumentation Proposals	NSF 87-43	Free	NSF
Initiative for Research on High Temperature Superconducting Materials	NSF 89-14	Free	NSF
Instrumentation for Materials Research Program	NSF 85-66	Free	NSF
Materials Chemistry (joint initiative between MPS Chemistry Division and MPS Division of Materials Research)	NSF 86-58	Free	NSF
Materials Chemistry and Chemical Processing	NSF 88-128	Free	NSF
Materials Research Groups Program	NSF 84-67	Free	NSF
Mathematical Sciences Postdoctoral Research Fellowships	NSF 88-73	Free	NSF
Molecular Biosciences Division (DMB) (flyer)	NSF 88-24	Free	NSF
Opportunities in the Mathematical Sciences, 1989	NSF 88-101	Free	NSF
Postdoctoral Research Fellowships in Chemistry	NSF 88-89	Free	NSF

Directorate for Science and Engineering Education (SEE)

(CFDA 47.071, 47.009, 47.066 thru 47.068; K.W. 0502031,0502042,0502023)

Title	*Number*	*Price*	*Order from*
Directories of Awards			
Applications of Advanced Technologies Program: Summary of Grants, FY 84-86	NSF 86-87	Free	NSF
Directory of NSF-Supported Teacher Enhancement Projects	NSF 87-21	Free	NSF
Informal Science Education Program Summary of Grants, FY 84-86	NSF 86-86	Free	NSF
Instructional Materials Development Program: Summary of Grants, FY 84-86	NSF 86-85	Free	NSF
Instrumentation for Undergraduate Science and Engineering Instructional Improvement: Summaries of FY 85 and FY 86 College Science Instrumentation Awards	NSF 86-65	Free	NSF
Legacy to Tomorrow	NSF 88-49	Free	NSF
Presidential Young Investigators – 1987 Awards	NSF 87-54	Free	NSF
Profiles in Excellence, Graduate Fellowships Program	NSF 86-39	Free	NSF
Research in Teaching and Learning Program: Summary of Grants, FY 84-86	NSF 86-84	Free	NSF
SEE Directory of Awards, FY 86	NSF 87-20	Free	NSF
SEE Directory of Awards, Oct. 1, 1983-Sept. 30, 1985	NSF 86-27	Free	NSF
SEE Directory of Awards, FY 87-88	NSF 89-18	Free	NSF

Program Guidelines

Career Access Opportunities in Science and Technology for Women, Minorities, and the Disabled ..... NSF 88-102	Free	NSF
Grants for Research and Education in Science and Engineering ..... NSF 83-57	Free	NSF
Instrumentation and Laboratory Improvement ..... NSF 88-90	Free	NSF
Materials Development, Research, and Informal Science Education ..... NSF 88-29	Free	NSF
NSF Graduate Research Fellowships -- Graduate Fellowships ..... NSF 88-57	Free	NSF
NSF Graduate Research Fellowships -- Minority Graduate Fellowships..... NSF 88-58	Free	NSF
NSF-NATO Postdoctoral Fellowships Science and Engineering 1988-89 Program ..... NSF 88-67	Free	NSF
Office of Studies and Program Assessment..... NSF 88-69	Free	NSF
Presidential Awards for Excellence in Science and Mathematics Teaching (Division of Research Career Development) ..... None	Free	NSF
Presidential Young Investigator Awards Program..... NSF 88-34	Free	NSF
Private Sector Partnerships to Improve Science and Math Education ..... NSF 88-71	Free	NSF
Projects to Promote the Effective Use of Technology in the Teaching of Science and Mathematics ..... NSF 88-103	Free	NSF
Research Experiences for Undergraduates ..... NSF 88-28	Free	NSF
A Selected List of Fellowship Opportunities and Aids to Advanced Education for U.S. Citizens and Foreign Nationals ..... NSF 88-119	Free	NSF

Teacher Preparation and Enhancement ..... NSF 87-10	Free	NSF
Undergraduate Curriculum Development in Engineering ..... NSF 88-84	Free	NSF
Undergraduate Curriculum Development in Mathematics – Calculus ..... NSF 88-83	Free	NSF
Undergraduate Faculty Enhancement Program ..... NSF 88-33	Free	NSF
Young Scholars Program ..... NSF 88-27	Free	NSF

Reports

Career Progression of NATO Post-doctoral Fellows ..... NSF 88-130	Free	NSF
Educating Americans for the 21st Century CPCE-NSF-03	Free	NSF
Educating Americans for the 21st Century—Source Material CPCE-NSF-04	Free	NSF
The Mathematical Science Curriculum K-12: What Is Still Fundamental and What Is Not (Division of Materials Development) ..... None	Free	NSF
NSF Graduate Research Fellowships Brochure ..... NSF 89-31	Free	NSF
Report on the National Science Foundation Disciplinary Workshop on Undergraduate Education ..... NSF 89-3	Free	NSF
A Revised and Intensified Science and Technology Curriculum (Grades K-12) Urgently Needed for Our Future (Division of Materials Development) ..... None	Free	NSF
Science and Engineering Education for the 1980's and Beyond ..... NSF 80-78	Free	NSF
Undergraduate Science, Mathematics, and Engineering Education ..... NSB 86-100	Free	NSF

Undergraduate Science, Mathematics, and Engineering Education, Volume II—Source Materials	NSB 86-100	Free	NSF

Directorate for Scientific, Technological, and International Affairs (STIA)

(CFDA 47.053, 47.069; K.W. 0112000,0901043,1107000;DD,FF,II)

Title	*Number*	*Price*	*Order from*
Program Guidelines			
Awards for Japanese-Language Study by Researchers in Science and Engineering	NSF 88-118	Free	NSF
Cooperative Science Programs with Latin America and the Caribbean	NSF 80-52	Free	NSF
Cooperative Science Programs with Western Europe	NSF 88-15	Free	NSF
Facilitation Awards for Handicapped Scientists and Engineers	NSF 84-62	Free	NSF
Fact Sheet: Support for Research Visits to Japan through the National Science Foundation	NSF 88-51	Free	NSF
Grants for Research and Education in Science and Engineering	NSF 83-57	Free	NSF
International Information and Analysis Section (I&A)	NSF 87-67	Free	NSF
Japan Initiative Fact Sheet	NSF 88-39	Free	NSF
Japan Society for the Promotion of Science (JSPS) Postdoctoral Awards for United States Researchers	NSF 88-98	Free	NSF
NSF-AIST (U.S.-Japan effort)	NSF 89-16	Free	NSF
NSF Visiting Professorships for Women	NSF 88-31	Free	NSF

Program for Long and Medium Term Research at Foreign Centers of Excellence	NSF 88-110	Free	NSF
Research Assistantships for Minority High School Students	NSF 87-2	Free	NSF
Research Improvement in Minority Institutions	NSF 89-7	Free	NSF
Research in Undergraduate Institutions	NSF 85-59	Free	NSF
Research Opportunities for Minority Scientists and Engineers	NSF 87-3	Free	NSF
Research Opportunities for Women	NSF 87-56	Free	NSF
Research Opportunity Awards (Division of Research Initiation and Improvement)	None	Free	NSF
Science and Technology Agency of Japan: Postdoctoral Awards for United States Researchers	NSF 88-52	Free	NSF
Science in Developing Countries	NSF 83-58	Free	NSF
Small Business Guide to Federal R&D Funding Opportunities	NSF 86-28	Free	NSF
Small Business Innovation Research Program Solicitation	NSF 89-30	Free	NSF
US-Australia Cooperative Science Program	NSF 81-49	Free	NSF
US-China Cooperative Science Program	NSF 82-50	Free	NSF
US-East Asia Cooperative Science Programs	NSF 83-50	Free	NSF
US-Eastern Europe Cooperative Science Programs	NSF 81-27	Free	NSF
US-India Cooperative Science Program	NSF 87-7	Free	NSF
US-Japan Cooperative Science Program	NSF 81-58	Free	NSF

US-Japan Program of Cooperation in Photoconversion and Photosynthesis	NSF 83-11	Free	NSF
US-New Zealand Cooperative Science Program	NSF 81-50	Free	NSF

Reports

NSF Small Business Innovation Research Program; Abstracts of Phase I Awards, 1988	NSF 88-50	Free	NSF

Science Resources Studies (SRS)

(CFDA 47.053; K.W. 0901034,0404021)

SRS produces three major types of reports, which are based on surveys and studies: *Science Resources Studies Highlights*, Detailed Statistical Tables, and Analytical Reports. Free paper copies of these reports may be obtained by telephoning the Office of the Director, Division of Science Resources Studies (O/DD), (202) 634-4622.

For a period of about 18 months, beginning in January 1986, SRS published Detailed Statistical Tables only on diskette; paper copies were not produced. But publication of Tables in paper copy has been resumed, and most of the latest Tables reports are now available in both diskette and paper. A free diskette service has been established by which the prospective user can obtain Tables on data-diskette sets in exchange for a set of blank diskettes. The data-diskette sets are produced in ASCII and/or LOTUS format. The number of diskettes in each set—and therefore the number of blank diskettes required from the prospective user—varies according to which format was used. For information on the identity of the format and number of blanks required, as well as the procedures by which data diskettes and blank diskettes may be exchanged, call the SRS Diskette Service, RDS Systems, (301) 984-1989. Detailed Statistical Tables in both types of hard copy—microfiche and paper—may be obtained from NTIS; for price information, call (703) 487-4650.

Title	*Number*	*Price*	*Order from*
Analytical Reports			
A Comparative Analysis of Information on National Industrial R&D Expenditures	85-311	Free	NSF
Doctoral Scientists and Engineers: A Decade of Change	88-302	Free	NSF
Federal R&D Funding by Budget Function: Fiscal Years 1988-90	89-306	Free	NSF

Foreign Citizens in U.S. Science and Engineering: History, Status, and Outlook	86-305 Revised	Free	NSF
Geographic Distribution of Industrial R&D Expenditures	88-317	Free	NSF
A Guide to NSF Science/Engineering Resources Data	87-308	Free	NSF
International Science and Technology Data Update: 1988	89-307	Free	NSF
National Patterns of Science and Technology Resources: 1989	89-308	Free	NSF
Profiles--Chemistry: Human Resources and Funding	87-307	Free	NSF
Profiles--Computer Sciences: Human Resources and Funding	88-324	Free	NSF
Profiles--Electrical/Electronics Engineering: Human Resources and Funding	88-326	Free	NSF
Profiles--Mechanical Engineering: Human Resources and Funding	87-309	Free	NSF
Profiles--Psychology: Human Resources and Funding	88-325	Free	NSF
Science and Engineering Personnel: A National Overview	85-302	Free	NSF
Science and Technology Data Book	88-332	Free	NSF
Science and Technology Resources in U.S. Industry	88-321	Free	NSF
The Science and Technology Resources of Japan: A Comparison with the United States	88-318	Free	NSF
The Science and Technology Resources of West Germany: A Comparison with the United States	86-310	Free	NSF
Women and Minorities in Science and Engineering	88-301	Free	NSF

Title	*Number**	*Price*	*Order from**
Detailed Statistical Tables			
[For availability, please see introductory note under the "Science Resources Studies (SRS)" heading.]			
Academic Research Equipment in the Physical and Computer Sciences and Engineering: 1985	SRS 87-D6	Free	NSF
Academic Science/Engineering: Graduate Enrollment and Support, Fall 1986	88-307	Free	NSF
Academic Science/Engineering: R&D Funds, FY 1986	88-312	Free	NSF
Academic Science/Engineering: Scientists and Engineers, January 1985	SRS 86-D3	Free	NSF
Characteristics of Doctoral Scientists and Engineers in the United States: 1987	88-331	Free	NSF
Characteristics of Recent Science/ Engineering Graduates: 1986	87-321	Free	NSF
Federal Funds for Research and Development: FYs 1987, 1988, and 1990, Volume XXXVII	89-304	Free	NSF
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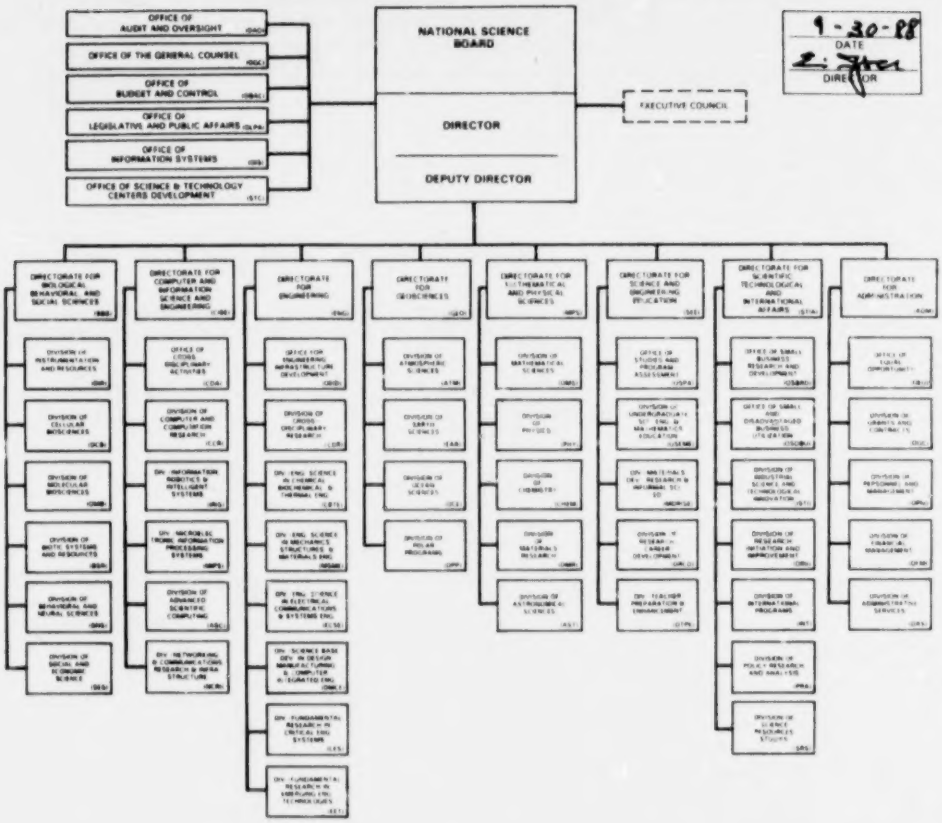

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